AMENDMENTS TO THE CLAIMS

Please add new claims 27 and 28 as shown below. A complete listing of the claims in this case, with their status, is shown below.

- 1. (Original) An anti-angiogenic peptide substantially identical to about 10 to about 150 consecutive amino acids selected from the N-terminal end of human placental lactogen, human growth hormone, or growth hormone variant hGH-V, wherein the peptide
 - (i) inhibits capillary endothelial cell proliferation and organization;
 - (ii) inhibits angiogenesis in chick chorioallantoic membrane; and
- (iii) binds to at least one specific receptor which does not bind an intact full length growth hormone, placental lactogen, or growth hormone variant hGH-V.
- 2. (Original) The peptide of claim 1, wherein the peptide is generated by enzymatic cleavage of growth hormone, placental lactogen, or growth hormone variant hGH-V.
 - 3. (Original) The peptide of claim 1 having the amino acid sequence of SEQ ID NO: 18.
 - 4. (Original) The peptide of claim 1 having the amino acid sequence of SEQ ID NO:24.
 - 5. (Original) The peptide of claim 1 having the amino acid sequence of SEQ ID NO: 30.
 - 6. (Original) An isolated nucleic acid encoding the peptide of claim 1.
 - 7. (Original) The nucleic acid of claim 6, wherein the nucleic acid is DNA.
 - 8. (Original) The nucleic acid of claim 6, wherein the nucleic acid is RNA.
 - 9. (Original) The nucleic acid of claim 7, wherein the nucleic acid comprises a cDNA sequence.

10. (Original) The nucleic acid of claim 7, wherein the nucleic acid comprises the sequence of SEQ IDNO: 14.

- 11. (Original) The nucleic acid of claim 7, wherein the nucleic acid comprises the sequence of SEQ ID NO:20.
 - 12. The nucleic acid of claim 7, wherein the nucleic acid comprises the sequence of SEQ ID N0:26.
- 13. (Original) The nucleic acid of claim 7, wherein the nucleic acid comprises the sequence of SEQ ID NO: 19.
- 14. The nucleic acid of claim 7, wherein the nucleic acid comprises the sequence of SEQ IDNO:13.
- 15. (Original) The nucleic acid of claim 7, wherein the nucleic acid comprises the sequence of SEQ ID NO:25.
- 16. (Original) The nucleic acid sequence of claim 6, wherein the nucleic acid sequence comprises a vector.
- 17. (Original) The nucleic acid sequence of claim 16, wherein the vector is an expression vector.
 - 18. (Original) A host cell comprising the nucleic acid of claim 7.
- 19. (Original) A method of producing the peptide of claim 1, comprising expressing the nucleic acidin the host cell of claim 18, and recovering the peptide.
- 20. (Original) The method of claim 19, wherein a peptide product of the expressed nucleic acid is recovered from the host cell and is enzymatically cleaved to generate the peptide of claim 1.

- 21. (Original) A method of treating an angiogenic disease in a subject, the method comprising administering to a subject in need of such treatment an angiogenesis inhibitory effective amount of a peptide of claim 1.
- 22. (Original) The method of claim 21 wherein the peptide has the amino acid sequence of SEQ ID NO: 18, SEQ ID NO:24 or SEQ ID NO:30.
- 23. (Original) A method of inhibiting tumor formation or growth in a patient, the method comprising administering to the patient an angiogenesis inhibitory effective amount of the peptide of claim 1.
- 24. (Original) The method of claim 23 wherein the peptide has amino acid sequence SEQ ID NO:18, SEQ ID NO:24 or SEQ ID NO:30.
- 25. (Original) A method for diagnosing a probable abnormality of placental vascularization during pregnancy comprising assaying a level of at least one of endogenous N-terminal fragments of growth hormone, prolactin, growth hormone variant hGH-V, and placental lactogen in a tissue sample from a patient; and

comparing the level of the at least one of endogenous N-terminal fragments to an average level of the at least one of endogenous N-terminal fragments in a normal patient population; wherein a level of the at least one of endogenous N-terminal fragments higher than the average level is a probable abnormality of placental vascularization during pregnancy.

26. (Original) A method of modulating vascularization of a patient's placenta, the method comprising administering to the patient an angiogenesis inhibitory effective amount of the peptide of claim 1.

27. (New) A pharmaceutical formulation, comprises:

a pharmaceutically acceptable carrier; and

a therapeutically effective amount of a peptide chosen from SEQ ID NO.:18; SEQ ID NO.:24; and SEQ ID NO:30.

28. (New) A method of treatment, comprising:
diagnosing a patient as having a tumor; and
administering to the patient an angiogenesis inhibitory effective amount of the
formulation of claim 27.